

## Quarter 1

## Nature of Science

- Raise questions about the natural world
- Compare the observations made by different groups
- Explain that science is not rigid, but uses observations and empirical evidence
- Attempt reasonable answers to scientific questions
- Compare the methods of investigations done by others
- Keep appropriate records
- Recognize and explain that scientists base their explanations on evidence.
- Recognize that science involves creativity in experiments
- Explain that science focuses on the natural world
- Explain types of models in science

## Quarter 2

## Physical Science

- Measure and compare objects based on their properties
- Identify properties and uses of water in each of its states
- Explore the law of Conservation of Mass
- Investigate and describe how magnets attract and repel
- Identify some familiar changes in materials that result in other materials with new characteristics
- Observe and describe basic forms of energy
- Investigate and describe that energy causes motion and creates change
- Investigate sound and pitch
- Describe how moving water and air are sources of energy
- Recognize how heat flows
- Identify common materials the conduct heat well or poorly
- Recognize how objects change position and direction
- Identify and describe speed of objects

**Quarter 3**

**Earth Science**

- Identify that patterns of stars shift in the night sky
- Describe changes in the observable shape of the moon
- Recognize the Earth revolves around the Sun and rotates on its axis
- Relate the rotation of the Earth and movements of the Sun, Moon, and stars are connected
- Investigate and report the effects of space exploration
- Identify three categories of rocks
- Recognize that humans need resources found on the Earth
- Describe the basic differences between physical weathering and erosion
- Investigate how technology and tools help humans to observe
- Identify resources available in Florida

**Quarter 4**

**Life Science**

- Identify processes of reproduction in flowering plants
- Explain that plants and animals have inherited characteristics and some are affected by the environment
- Recognize that animal behaviors may be inherited or learned
- Compare and contrast the major stages in life cycles of Florida plants and animals
- Compare seasonal changes in Florida plants and animals to other regions
- Explain that animals cannot make their own food and get their energy from food passed to them
- Trace the flow of energy from the Sun from producers to consumers
- Recognize ways plants and animals impact the environment